

# Legislative Council Staff

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# **Revised Fiscal Note**

(replaces fiscal note dated February 28, 2022)

**Drafting Number:** LLS 22-0675 **Prime Sponsors:** Sen. Hansen

Sen. Hansen Rep. Sirota **Date:** March 29, 2022

Bill Status: Senate Appropriations

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Bill Topic: POLICIES TO REDUCE EMISSIONS FROM THE BUILT ENVIRONMENT

Summary of Fiscal Impact:

State Expenditure

☐ State Transfer

☐ Statutory Public Entity

The bill exempts air-source heat pumps, ground-source heat pumps, heat pump water heaters, residential energy storage systems, and certain building materials from sales and use taxes. The bill also creates refundable income tax credits for the purchase of the above heat pump and residential energy storage systems. From FY 2022-23 through FY 2033-34, the bill decreases state revenue from sales and use tax and income tax, decreases local government revenue, and increases state expenditures on an ongoing basis.

Appropriation Summary:

No appropriation is required.

Fiscal Note Status:

This revised fiscal note reflects the introduced bill, as amended by the Senate Transportation and Energy and Senate Finance Committees.

# Table 1 State Fiscal Impacts Under SB 22-051

		Budget Year FY 2022-23	Out Year FY 2023-24	Out Year FY 2024-25
Revenue	General Fund	(\$2.1 million)	(\$4.3 million)	(\$7.4 million)
	Total Revenue	(\$2.1 million)	(\$4.3 million)	(\$7.4 million)
Expenditures	General Fund	-	\$174,843	\$61,299
	Centrally Appropriated	-	\$14,633	\$14,633
	<b>Total Expenditures</b>	-	\$189,476	\$75,932
	Total FTE	-	1.0 FTE	1.0 FTE
Transfers		-	-	-
Other Budget Impacts	TABOR Refund	(\$2.1 million)	(\$4.3 million)	Not estimated
	General Fund Reserve	-	\$26,226	\$9,195

## **Summary of Legislation**

Beginning January 1, 2023, purchases of air-source heat pumps, ground-source heat pumps, and heat pump water heaters, and residential energy storage systems will be exempt from sales and use tax until January 1, 2033. Beginning in tax year 2023, the bill also creates refundable income tax credits for the purchase of these heat pump and residential energy storage systems through 2033. The bill also exempts purchases of decarbonizing building materials from sales and use tax from July 1, 2024 through July 1, 2034. Lastly, the bill allows an investor-owned utility to apply to the Public Utilities Commission to use either fuel commodity units or energy services provided for billing purposes.

## **Background**

**Decarbonizing building materials.** The Buy Clean Colorado Act, passed with House Bill 21-1303, required the Office of the State Architect to establish maximum acceptable global warming potential standards for building material categories used in public projects such as asphalt, cement and concrete, glass, wood, and steel. The Office of the State Architect is required to develop its criteria by January 1, 2024. The definition of decarbonizing building materials in the bill will be based on these standards.

### **State Revenue**

The bill is expected to decrease General Fund revenue by \$2.1 million in FY 2022-23, \$4.3 million FY 2023-24, and \$7.4 million in FY 2024-25, with similar impacts in subsequent years. In the first two years, FY 2022-23 and FY 2023-24, the revenue impact is based on the sales and use tax exemption for heat pumps and residential energy storage systems, and income tax credits for these systems only. Starting in FY 2024-25, the revenue impact also includes a preliminary estimate of the sales and use tax exemption for decarbonizing building materials. State sales and use tax revenue is subject to TABOR. Additional detail on these impacts is provided below.

Heat pump and residential energy storage systems sales and use tax exemption. Potential heat pump unit sales that are exempt under the bill were estimated from national Energy Star shipments and data on residential energy consumption from the Energy Information Administration (EIA). The U.S. Environmental Protection Agency catalogued an average of about 1,528,000 air-source and ground-source heat pump units and 94,000 heat pump water heater units shipped nationwide from 2019 to 2020. Assuming heat pump shipments increase at a similar rate as recorded from 2010 to 2020, national shipments could total between 1,767,000 and 1,870,000 in FY 2022-23 and FY 2023-24. Data from the EIA's 2015 residential energy consumption survey indicate that the Mountain North region, including Colorado, accounted for about 0.6 percent of the nation's installed heat pumps. Assuming heat pump prevalence for the nation's housing represents the share of heat pumps sent to the Mountain North region, and based on Colorado's 47 percent share of housing units within this region from U.S. Census Bureau estimates, the analysis assumes an estimated 0.3 percent of the Energy Star shipments could be for use by Colorado purchasers each year. Based on the above assumptions, the bill's sales and use tax exemption will apply to an estimated 2,558 units in FY 2022-23 (half-year impact), and 5,415 units in FY 2023-24.

Based on EIA data on battery storage trends in the United States, Colorado utilities reported about 115 residential customers with distributed energy storage systems associated with solar energy in 2020, up from 38 systems reported in 2018. Assuming these systems represent half of those installed in the state, and based on estimated growth in installations, the analysis assumes an estimated 110 systems will be installed in 2023 and 130 in 2024.

The analysis assumes an average price of about \$6,000 for air-source heat pump equipment, \$20,000 for ground-source heat pump equipment, \$3,000 for heat pump water heaters, and between \$11,500 and \$11,800 for a residential energy storage system. Based on the price estimates and data above, total exempt sales are projected to be \$15.3 million in FY 2022-23 and \$32.5 million in FY 2023-24. Using the state sales and use tax rate of 2.9 percent, exempting these sales will reduce General Fund revenue by \$461,000 in FY 2022-23 and by \$988,000 in FY 2023-24, with similar impacts in future years.

**Income tax credit for heat pumps and residential energy storage systems.** Beginning in tax year 2023, the bill creates a refundable income tax credit equal to 10 percent of the purchase price of heat pump and residential energy storage systems as described above. Based on potential purchases, the income tax credits will reduce General Fund revenue by \$1.6 million in FY 2022-23 (half-year impact) and by \$3.3 million in FY 2023-24, with similar impacts in future years.

**Decarbonizing building material sales and use tax exemption.** While the range of products that meet the criteria for decarbonizing building materials is not yet determined, net taxable sales of construction and building materials is significant. In FY 2020-21, net taxable sales for the construction industry and retail trade for building materials and garden equipment stores totaled \$10.9 billion, with estimated sales tax of about \$316 million. This fiscal note assumes that exempt decarbonizing building materials comprise 1.0 percent of these sales, which would decrease revenue by an estimated \$3.2 million beginning in FY 2024-25. However, criteria on what materials will be considered exempt are not yet available. To the extent decarbonizing building materials criteria results in a higher or lower percent of these sales, the revenue impact will also vary.

# **State Expenditures**

The bill increases state expenditures by \$189,476 in FY 2023-24 and by \$75,932 in FY 2024-25 and future years, paid from the General Fund. Expenditures are shown in Table 2 and detailed below.

Table 2
Expenditures Under SB 22-051

Cost Components	FY 2022-23	FY 2023-24	FY 2024-25
Department of Revenue			
Personal Services	-	\$51,509	\$51,509
Standard Operating	-	\$1,350	\$1,350
Capital Outlay	-	\$6,200	\$0
Computer and User Acceptance Testing	-	\$59,249	\$1,496
GenTax Computer Programming	-	\$11,250	\$0
Office of Research and Analysis	-	\$7,520	\$6,400
Tax Form Changes	-	\$845	\$544
Architect I Contract Services	-	\$36,920	-
Centrally Appropriated Costs <sup>1</sup>	-	\$14,633	\$14,633
FTE – Personal Services	-	1.0 FTE	1.0 FTE
Total	-	\$189,476	\$75,932

<sup>&</sup>lt;sup>1</sup> Centrally appropriated costs are not included in the bill's appropriation.

**Department of Revenue.** The Department of Revenue (DOR) will have costs for staff, data systems, and other expenses starting in FY 2023-24, as described below.

- Staff and contract services. The DOR require 1.0 FTE tax examiners starting in FY 2023-24. The tax examiners are necessary to process and review additional returns claiming the new income tax credits and to resolve errors in returns. In addition, the sales and use tax exemption for decarbonizing building materials will require contract work with a specialist, estimated as an Architect I in the state employee system, to determine product taxability and guidance, for 1,040 hours billed at \$35.50 per hour.
- Tax system modifications. The bill will require GenTax computer programming changes that will require 50 hours of work billed at a contractor rate of \$225 per hour. Computer and user acceptance testing associated with the programming changes will result in an additional cost of \$59,249 in FY 2023-24, with an ongoing cost of \$1,496 in FY 2024-25 and subsequent years. Lastly, the DOR will require tax form changes, which will require a reappropriation to the Department of Personnel and Administration.
- Reporting and analysis. The DOR is also required under the bill to create a model report and
  agreement related to the income tax credits in consultation with the Colorado Energy Office. The
  Office of Research and Analysis will also incur additional costs, an estimated \$7,520 in FY 2023-24
  and \$6,400 in FY 2024-25 and subsequent years.

**Department of Personnel and Administration.** The bill requires the Office of the State Architect in the Department of Personnel and Administration to provide its maximum global warming potential standards to the Department of Revenue for use in sales and use tax guidance and policies related to the decarbonizing building materials sales and use tax exemption. The Office of the State Architect is also required to provide assistance to the Office of the State Auditor for evaluating the tax expenditure. The increased workload are assumed to be accommodated within existing appropriations.

**Other agencies.** The bill requires the Colorado Energy Office to support the Office of the State Auditor with data and guidance when examining the exemption and to consult with the Department of Revenue for a model report related to the income tax credits in the bill. Additionally, the bill allows investor-owned utilities to apply to the Public Utilities Commission to use either fuel commodity units or energy services provided for billing purposes. The fiscal note assumes that these workload impacts can be accommodated within existing appropriations.

## **Other Budget Impacts**

**TABOR refunds.** The bill is expected to decrease the amount of state revenue required to be refunded to taxpayers by the amounts shown in the State Revenue section. This estimate assumes the March 2022 Legislative Council Staff revenue forecast. A forecast of state revenue subject to TABOR is not available beyond FY 2023-24. Because TABOR refunds are paid from the General Fund, decreased General Fund revenue will lower the TABOR refund obligation, but result in no net change to the amount of General Fund otherwise available to spend or save.

**General Fund reserve.** Under current law, an amount equal to 15 percent of General Fund appropriations must be set aside in the General Fund statutory reserve beginning in FY 2022-23. Based on this fiscal note, the bill is expected to increase the amount of General Fund held in reserve by \$26,226 in FY 2023-24, and \$9,195 in FY 2024-25, which will decrease the amount of General Fund available for other purposes.

### **Local Government**

Sales and use tax. Sales and use tax exemptions for heat pump systems and eligible decarbonizing building materials will decrease sales and use tax revenue for state-collected local governments and special districts that conform to the state tax base. The bill includes the exemptions among other optional sales and use tax exemptions for state-collected local governments. The distribution of potential heat pump systems and building materials, and implementation of the exemption for local governments and special districts cannot be estimated due to data availability.

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## **Departmental Difference**

The Office of the State Architect in the Department of Personnel and Administration estimates that it will have costs of \$90,057 in FY 2022-23 and \$91,539 in FY 2023-24 and subsequent years. These costs are based on an additional 1.0 FTE for an Analyst IV position beginning in FY 2022-23 to develop technical data for decarbonizing building materials that meet the maximum global warming potential standards prepared by the office, and to interface with retailers, vendors, manufacturers, and the general public on materials that are eligible for the sales and use tax exemption. The fiscal note does not include these costs based on the assumption that there will be no role for the Office of the State Architect in determining what building materials used in private construction projects meet the standards the office is developing under House Bill 21-1303. Senate Bill 22-051 is assumed to only require the office to give the Department of Revenue its standards for material categories as specified in statute.

#### **Effective Date**

The bill takes effect 90 days following adjournment of the General Assembly sine die, assuming no referendum petition is filed, except that the provisions relating to the sales and use tax exemptions on heat pumps and the bill's income tax credits take effect on January 1, 2023, and the provisions relating to the sales and use tax exemption on decarbonizing building materials take effect on July 1, 2024.

#### **State and Local Government Contacts**

Colorado Energy Office Counties County Assessors Information Technology Labor Municipalities Personnel Property Tax Division - Local Affairs Regional Transportation District Regulatory Agencies Revenue Special Districts State Auditor